

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013125\
 Data File : VN085607.D
 Acq On : 31 Jan 2025 17:16
 Operator : JC\MD
 Sample : PB166357ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#12

Quant Time: Jan 31 22:32:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

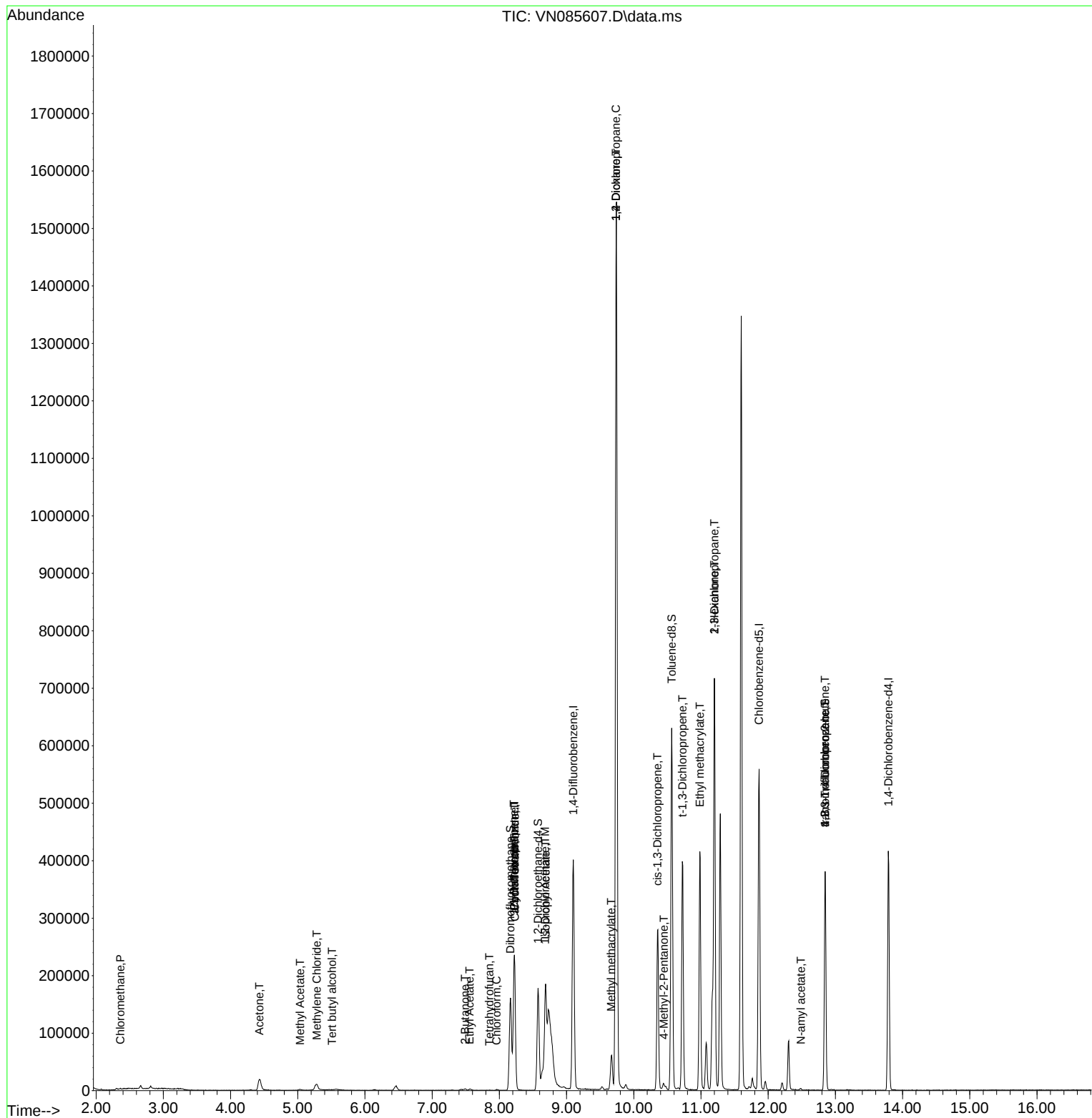
Internal Standards						
1) Pentafluorobenzene	8.224	168	158537	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324359	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	300427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	106376	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	149164	58.287	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.580%			
35) Dibromofluoromethane	8.165	113	112435	49.965	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.940%			
50) Toluene-d8	10.565	98	413718	51.746	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.500%			
62) 4-Bromofluorobenzene	12.847	95	122032	44.620	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.240%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	499	0.215	ug/l	93
11) Tert butyl alcohol	5.512	59	74	0.253	ug/l #	71
16) Acetone	4.430	43	38673	46.770	ug/l	93
18) Methyl Acetate	5.036	43	3538	1.407	ug/l #	86
20) Methylene Chloride	5.283	84	7809	3.815	ug/l	96
25) 2-Butanone	7.488	43	4372	3.593	ug/l	94
29) Tetrahydrofuran	7.853	42	268	0.347	ug/l #	34
30) Chloroform	7.959	83	1572	0.407	ug/l	96
31) Cyclohexane	8.224	56	4644	1.430	ug/l #	21
36) 1,1-Dichloropropene	8.218	75	15082	4.776	ug/l #	50
37) Ethyl Acetate	7.559	43	4273	1.340	ug/l #	76
38) Carbon Tetrachloride	8.230	117	17275	4.778	ug/l #	17
42) 1,2-Dichloroethane	8.682	62	1309	0.366	ug/l #	76
43) Isopropyl Acetate	8.688	43	243046	47.583	ug/l #	78
45) 1,2-Dichloropropane	9.735	63	2104	0.868	ug/l #	43
48) Methyl methacrylate	9.665	41	4406	1.917	ug/l #	14
49) 1,4-Dioxane	9.735	88	58	1.498	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	12504	4.219	ug/l #	73
53) t-1,3-Dichloropropene	10.723	75	959	0.285	ug/l #	45
54) cis-1,3-Dichloropropene	10.353	75	45919	12.767	ug/l #	70
56) Ethyl methacrylate	10.982	69	2692	2.637	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7403	1.957	ug/l #	43
59) 2-Hexanone	11.200	43	88352	42.363	ug/l #	58
74) N-amyl acetate	12.488	43	1729	0.536	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	67787	31.352	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	67787	84.825	ug/l #	3

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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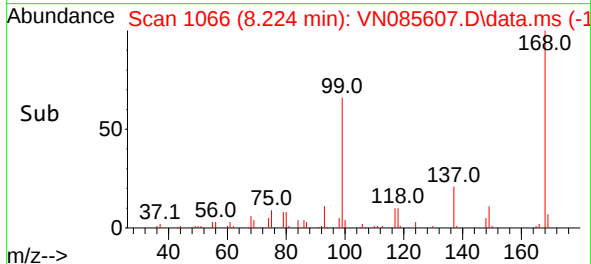
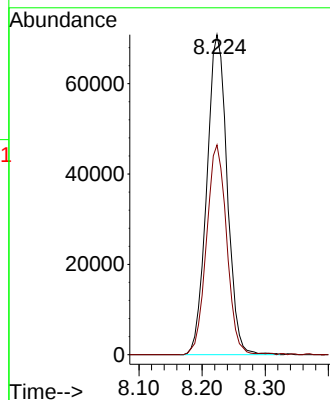
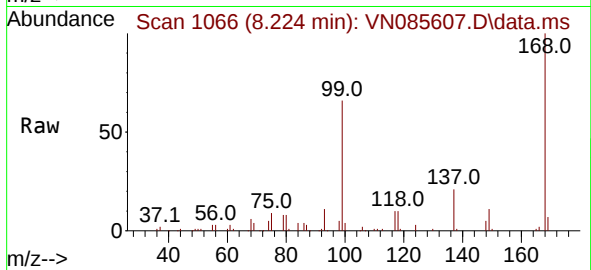




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

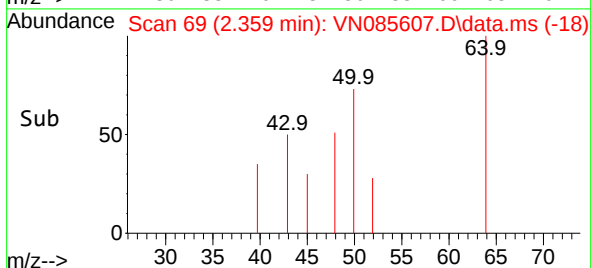
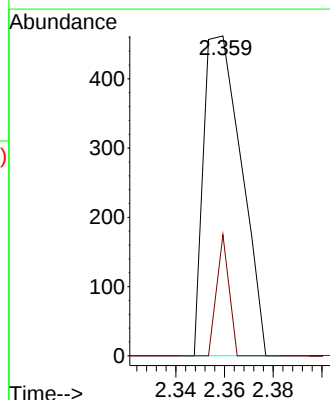
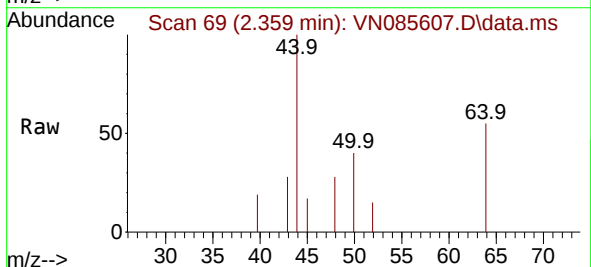
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#12

Tgt Ion:168 Resp: 158537
Ion Ratio Lower Upper
168 100
99 65.5 53.6 80.4



#3
Chloromethane
Concen: 0.215 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 50 Resp: 499
Ion Ratio Lower Upper
50 100
52 37.9 27.0 40.6

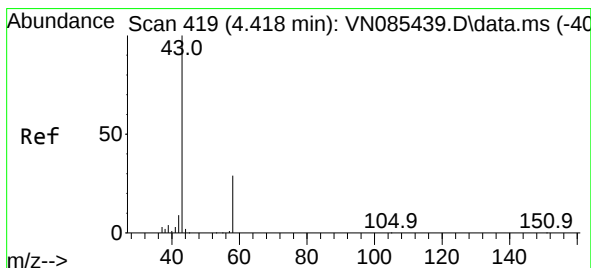
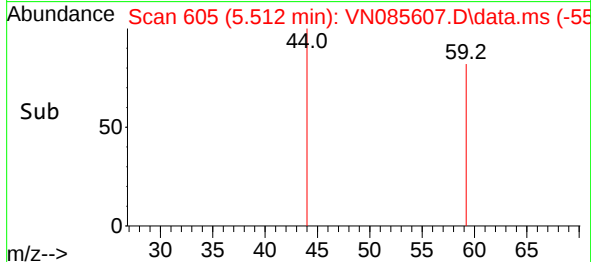
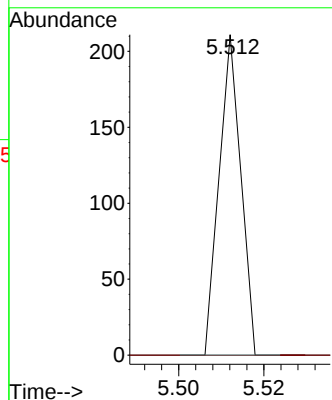
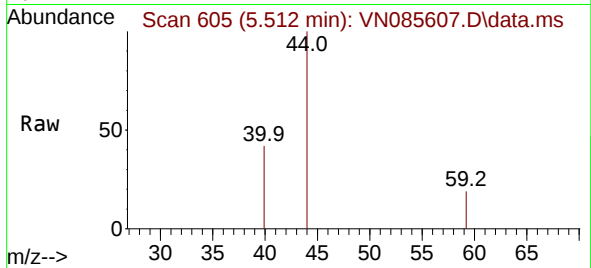




#11
Tert butyl alcohol
Concen: 0.253 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

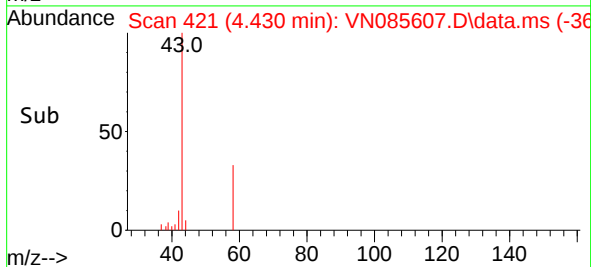
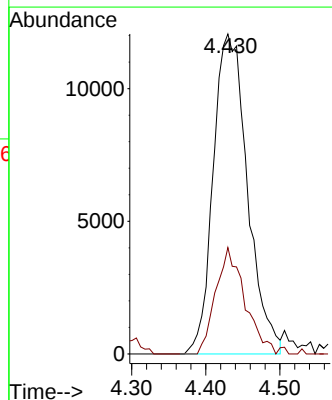
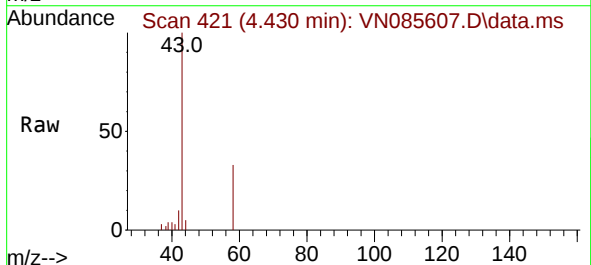
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ClientSampleId :
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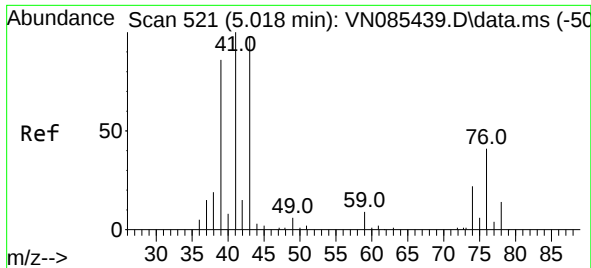
Tgt Ion: 59 Resp: 74
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 46.770 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 43 Resp: 38673
Ion Ratio Lower Upper
43 100
58 33.3 23.8 35.6

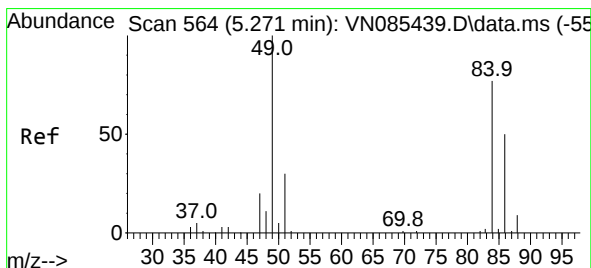
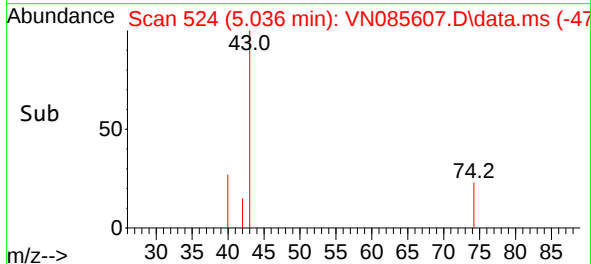
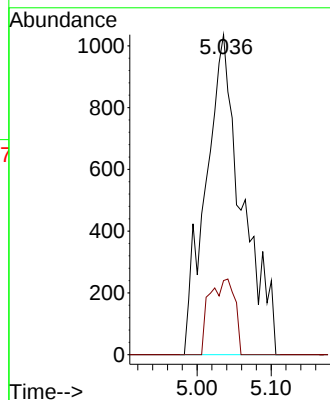
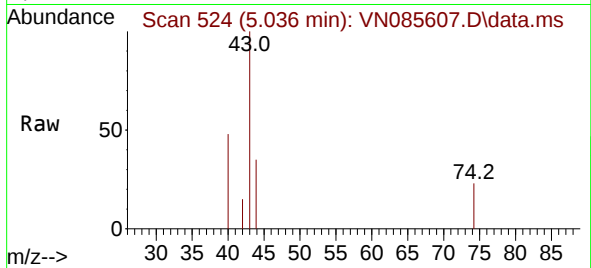




#18
Methyl Acetate
Concen: 1.407 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

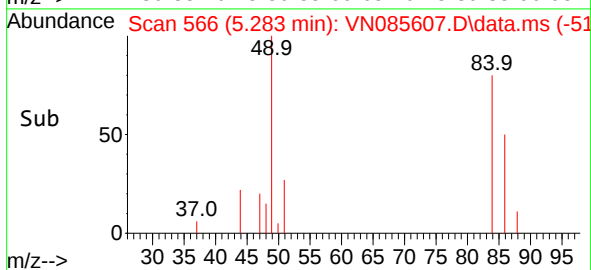
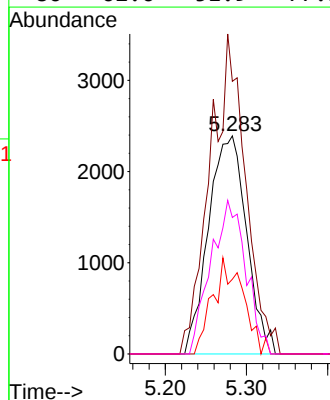
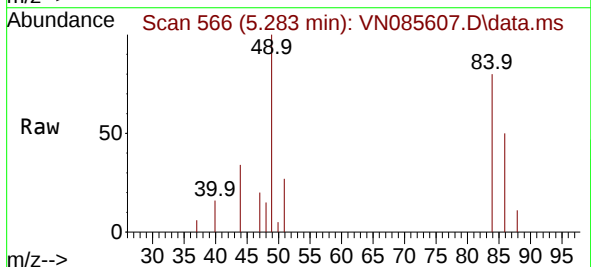
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#12

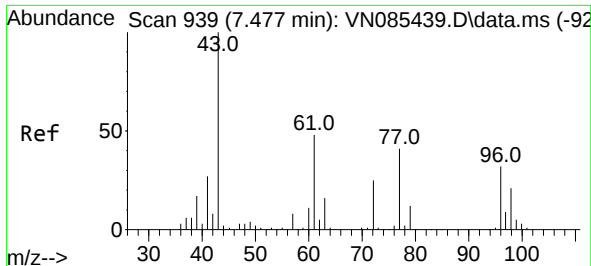
Tgt Ion: 43 Resp: 3538
Ion Ratio Lower Upper
43 100
74 16.4 18.6 28.0#



#20
Methylene Chloride
Concen: 3.815 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 84 Resp: 7809
Ion Ratio Lower Upper
84 100
49 125.1 104.1 156.1
51 34.3 31.0 46.4
86 62.6 51.9 77.9

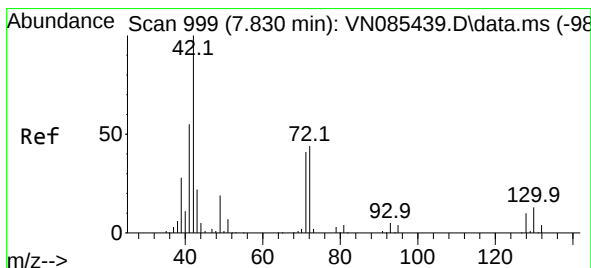
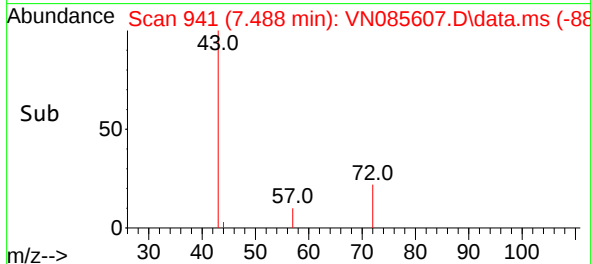
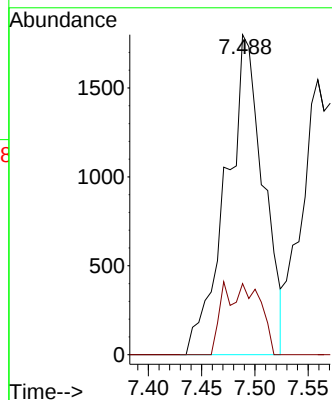
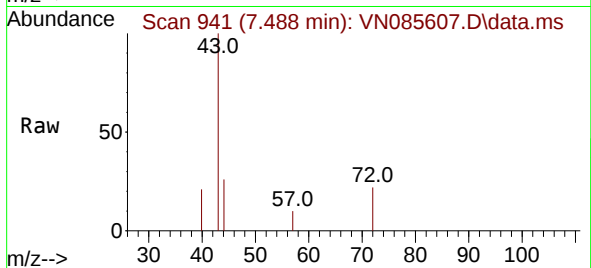




#25
2-Butanone
Concen: 3.593 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

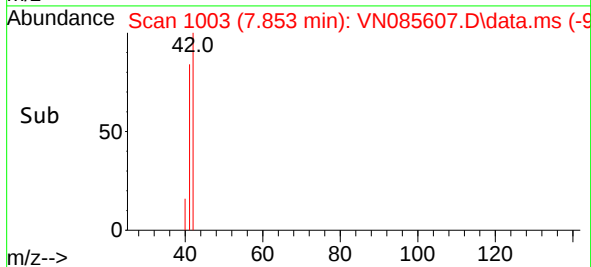
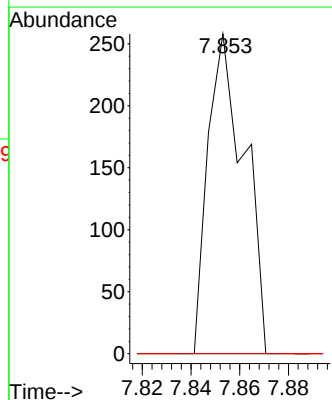
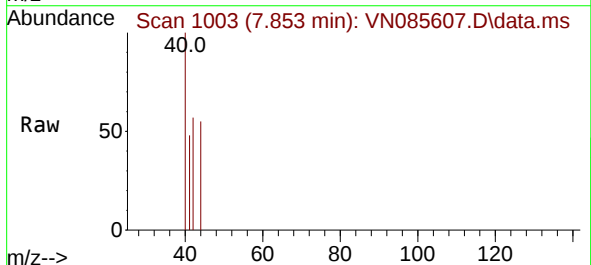
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#12

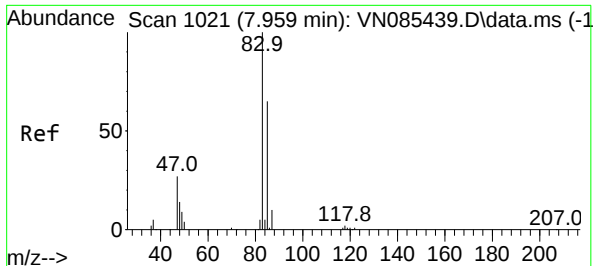
Tgt Ion: 43 Resp: 4372
Ion Ratio Lower Upper
43 100
72 22.2 20.2 30.4



#29
Tetrahydrofuran
Concen: 0.347 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.023 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 42 Resp: 268
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#

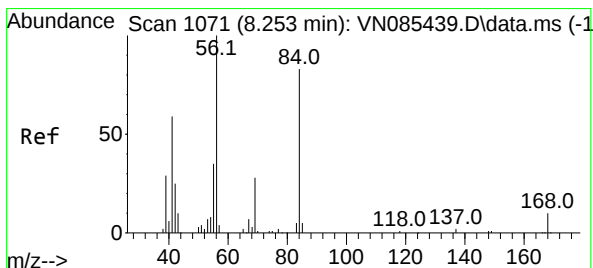
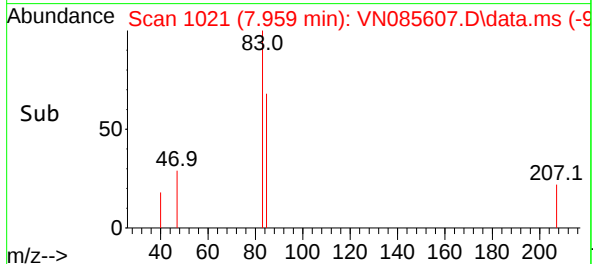
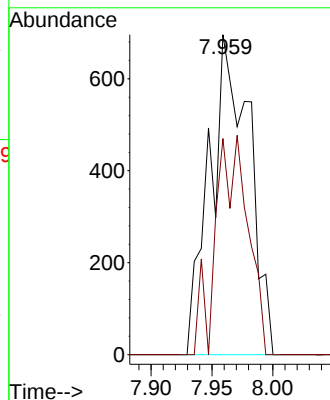
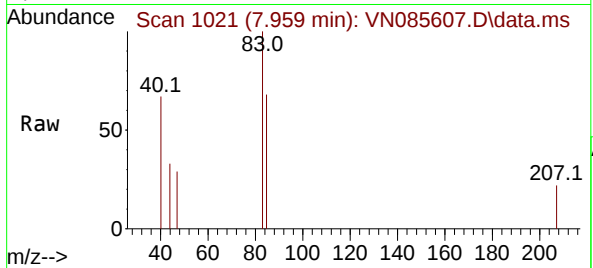




#30
Chloroform
Concen: 0.407 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

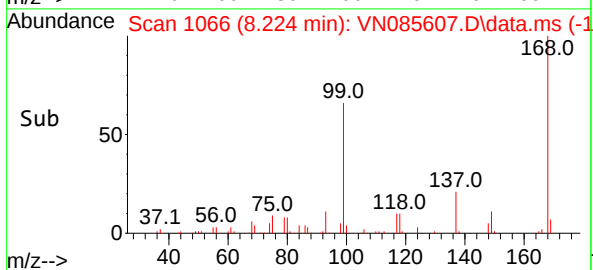
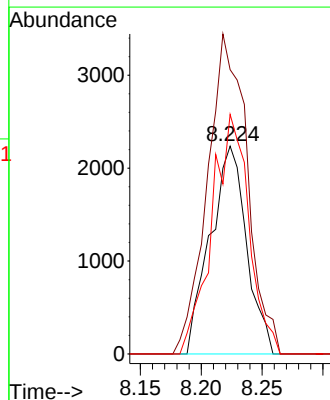
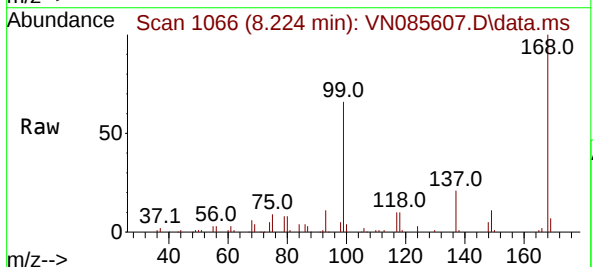
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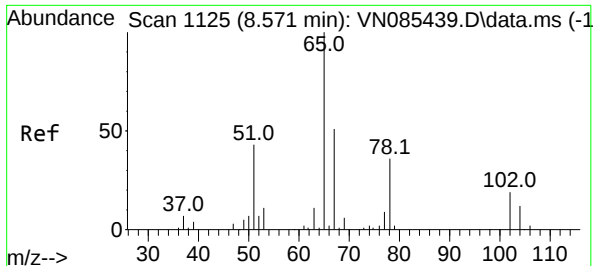
Tgt Ion: 83 Resp: 1572
Ion Ratio Lower Upper
83 100
85 67.5 51.8 77.6



#31
Cyclohexane
Concen: 1.430 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 56 Resp: 4644
Ion Ratio Lower Upper
56 100
69 136.8 22.2 33.4#
84 115.2 66.4 99.6#

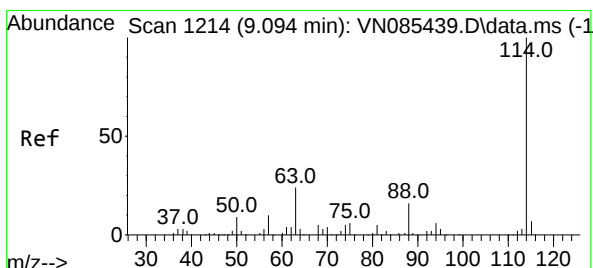
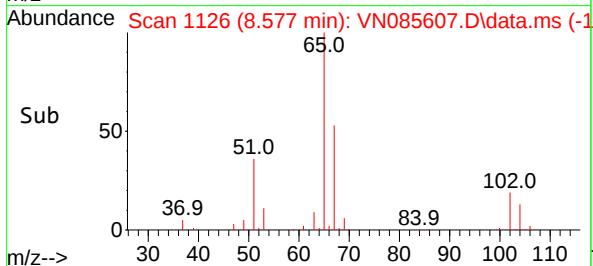
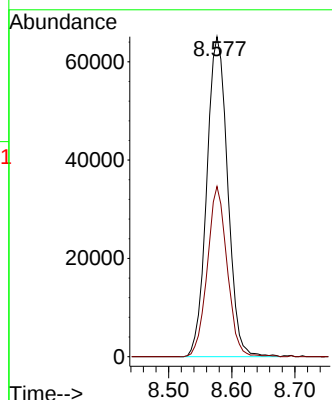
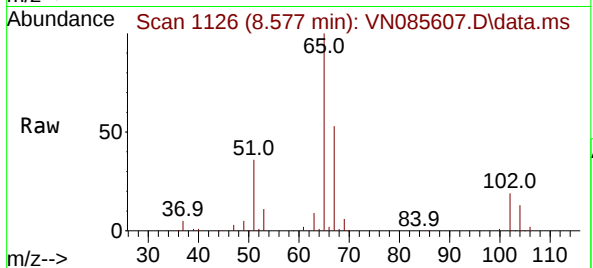




#33
 1,2-Dichloroethane-d4
 Concen: 58.287 ug/l
 RT: 8.577 min Scan# 1125
 Delta R.T. 0.006 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

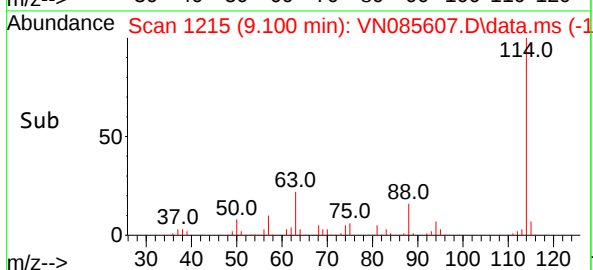
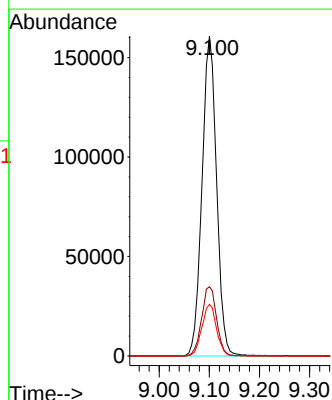
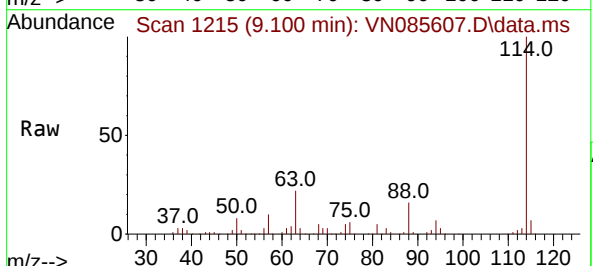
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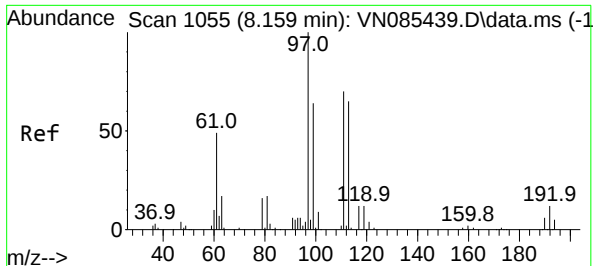
Tgt Ion: 65 Resp: 149164
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.006 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

Tgt Ion: 114 Resp: 324359
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 47.6
 88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.965 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085607.D

Acq: 31 Jan 2025 17:16

Instrument :

MSVOA_N

ClientSampleId :

PB166357ZHE#12

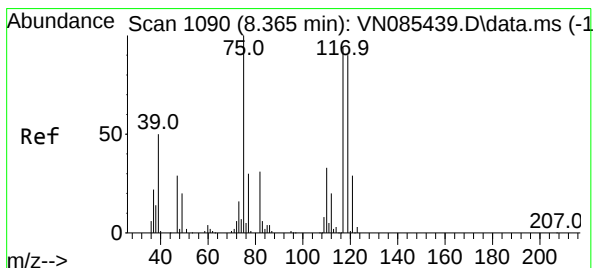
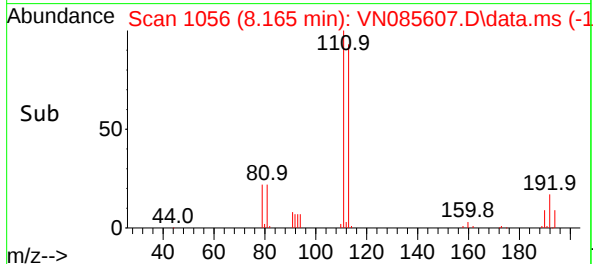
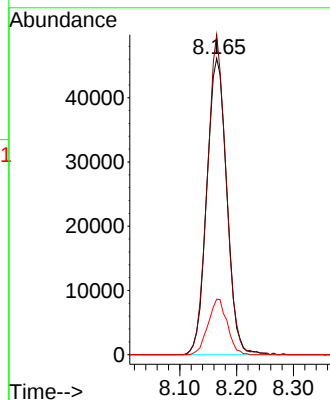
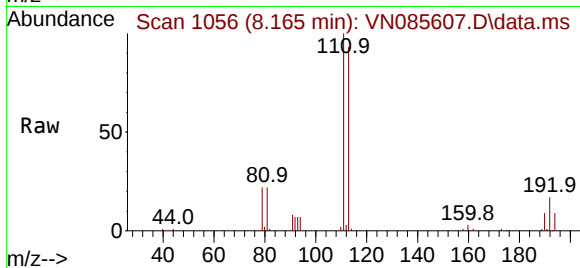
Tgt Ion:113 Resp: 112435

Ion Ratio Lower Upper

113 100

111 102.6 82.7 124.1

192 17.9 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.776 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085607.D

Acq: 31 Jan 2025 17:16

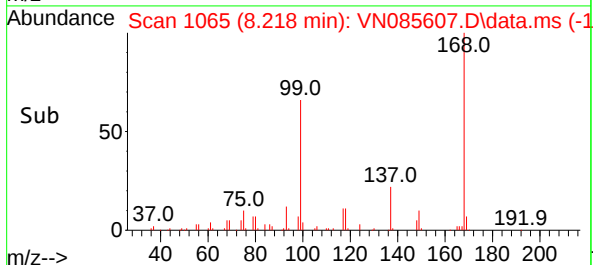
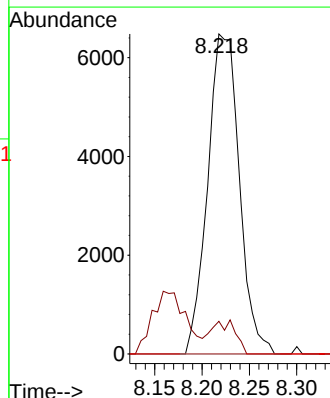
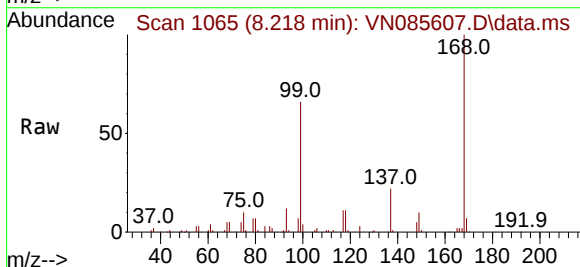
Tgt Ion: 75 Resp: 15082

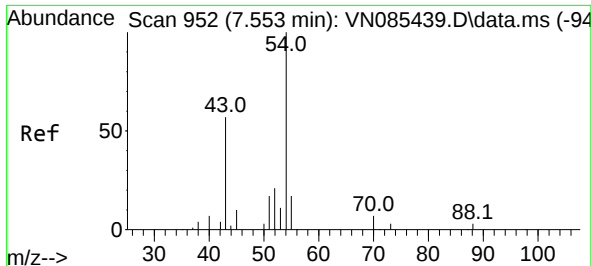
Ion Ratio Lower Upper

75 100

110 8.1 16.5 49.5#

77 0.0 24.4 36.6#

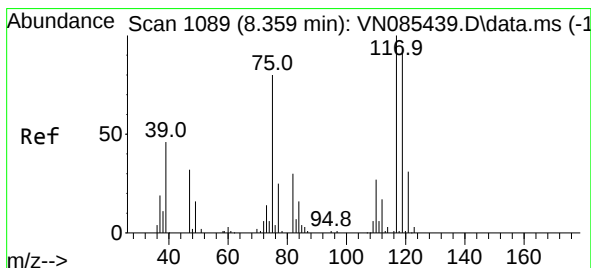
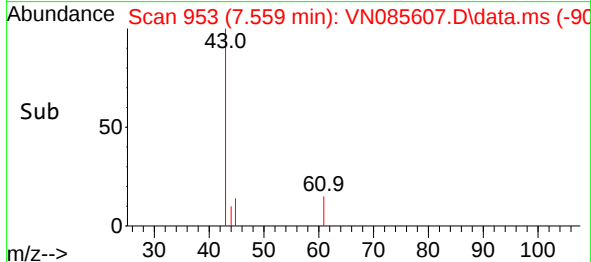
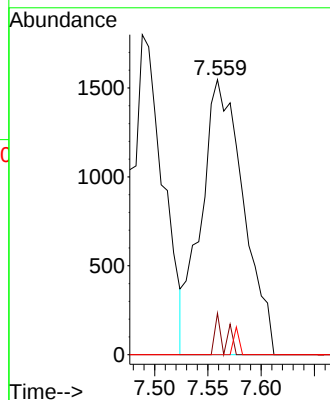
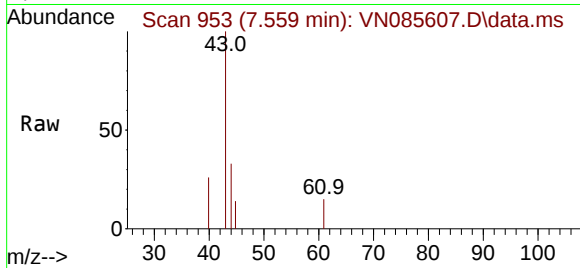




#37
Ethyl Acetate
Concen: 1.340 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

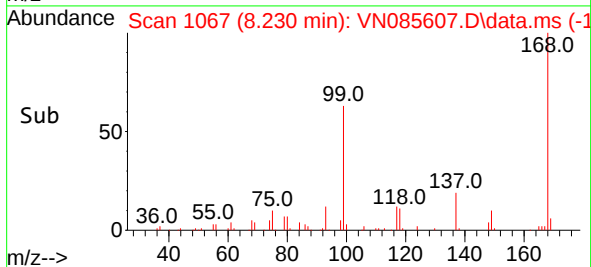
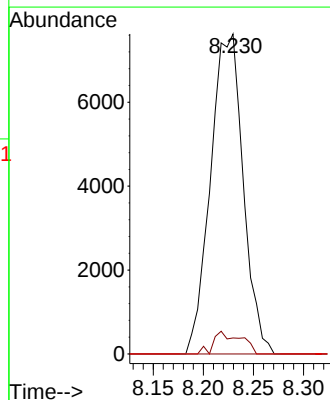
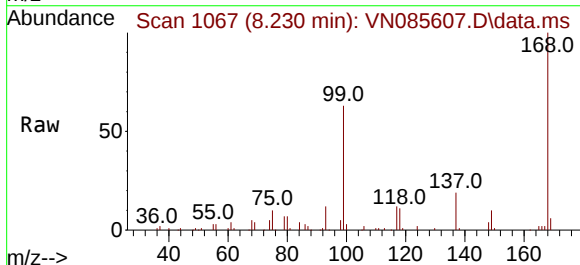
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#12

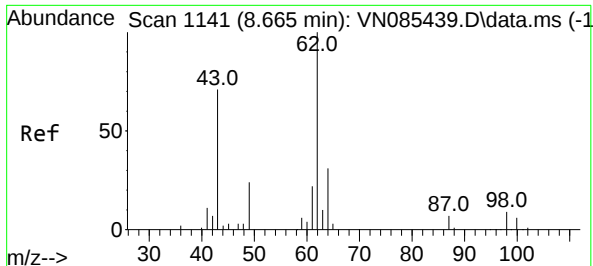
Tgt Ion: 43 Resp: 4273
Ion Ratio Lower Upper
43 100
61 3.3 10.9 16.3#
70 1.3 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 4.778 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 117 Resp: 17275
Ion Ratio Lower Upper
117 100
119 5.0 75.4 113.2#
121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.366 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.018 min

Lab File: VN085607.D

Acq: 31 Jan 2025 17:16

Instrument :

MSVOA_N

ClientSampleId :

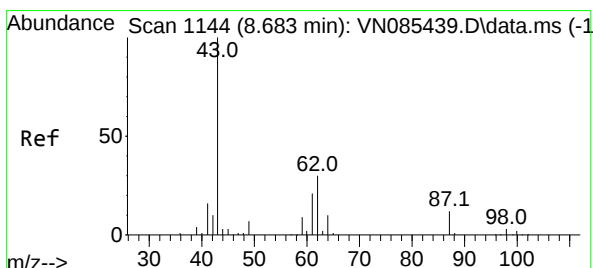
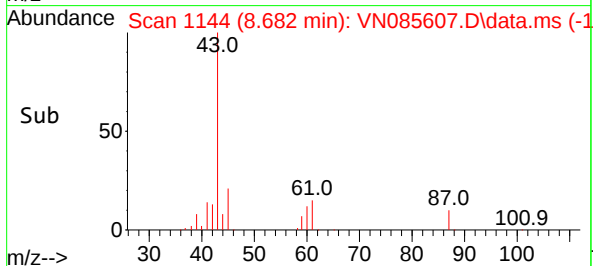
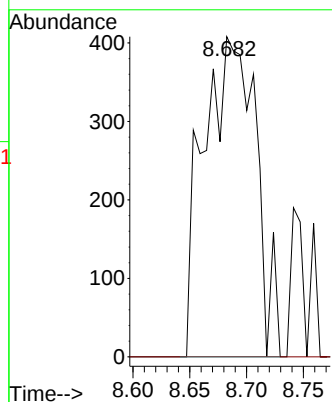
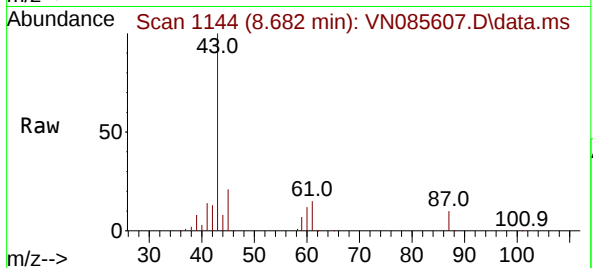
PB166357ZHE#12

Tgt Ion: 62 Resp: 1309

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 47.583 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085607.D

Acq: 31 Jan 2025 17:16

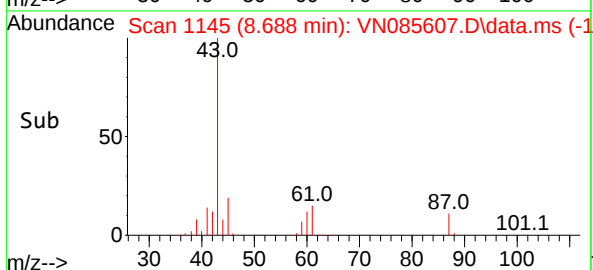
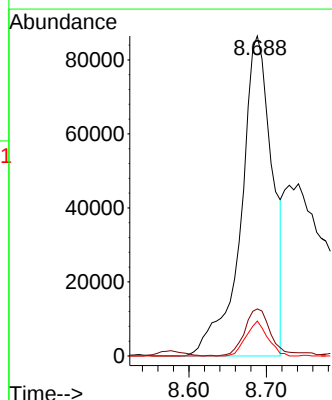
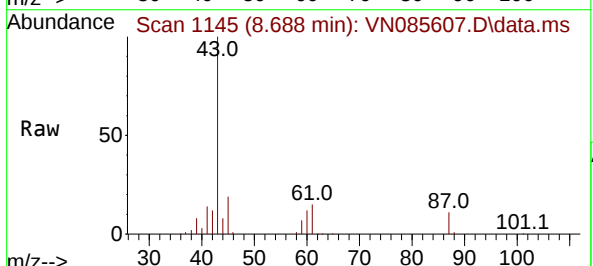
Tgt Ion: 43 Resp: 243046

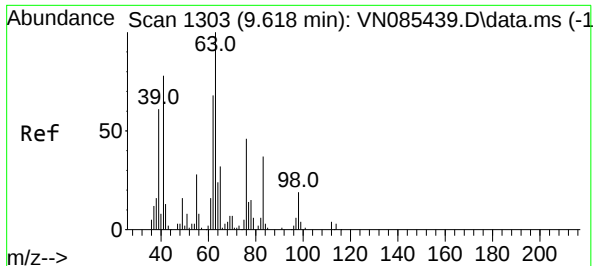
Ion Ratio Lower Upper

43 100

61 12.7 20.7 31.1#

87 7.5 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.868 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085607.D

Acq: 31 Jan 2025 17:16

Instrument :

MSVOA_N

ClientSampleId :

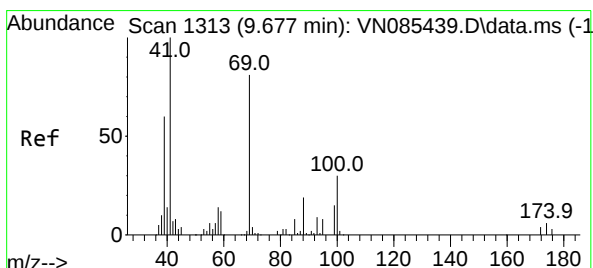
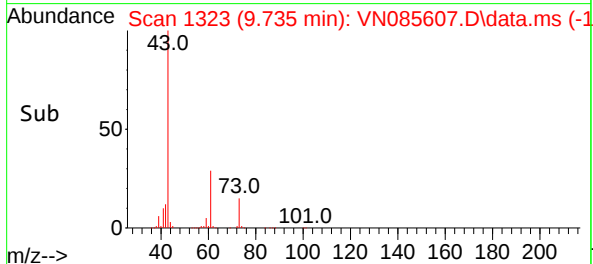
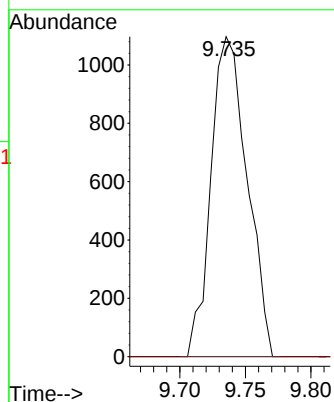
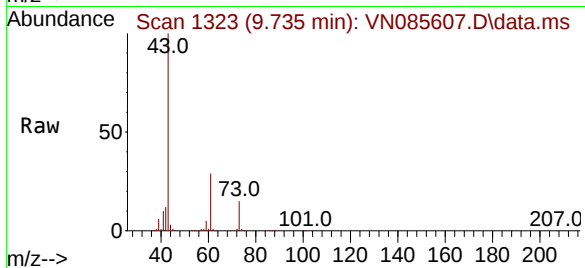
PB166357ZHE#12

Tgt Ion: 63 Resp: 2104

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 1.917 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN085607.D

Acq: 31 Jan 2025 17:16

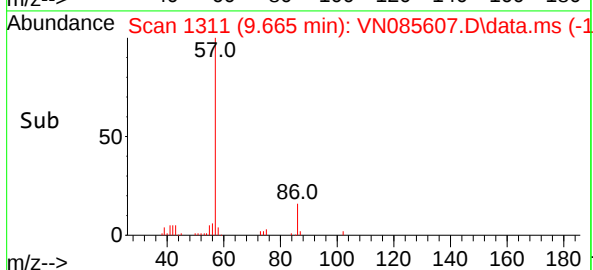
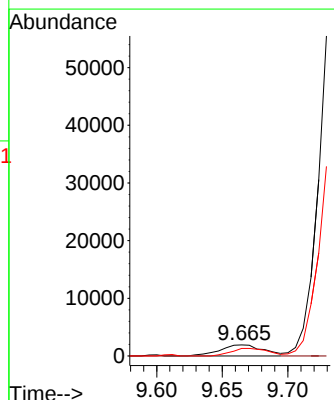
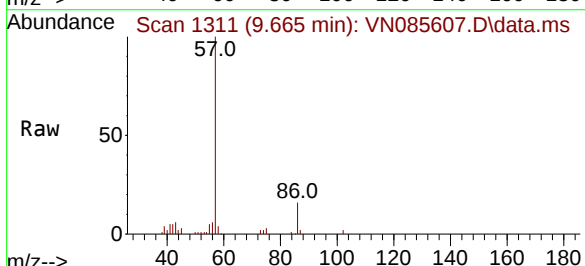
Tgt Ion: 41 Resp: 4406

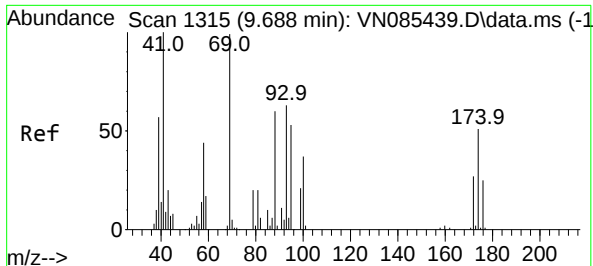
Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

39 0.0 49.0 73.6#

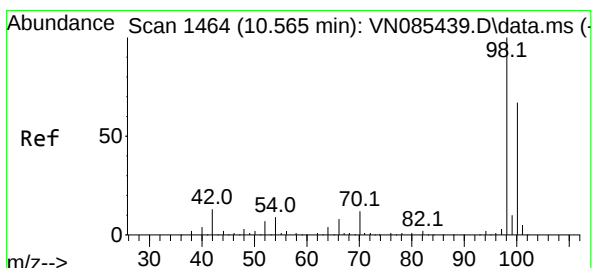
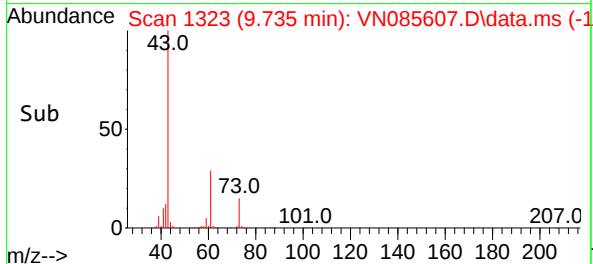
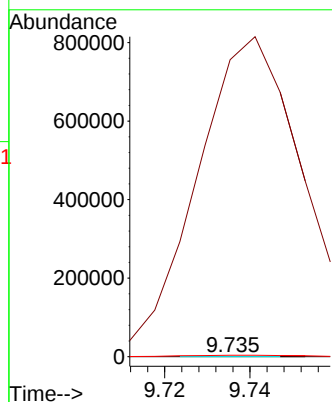
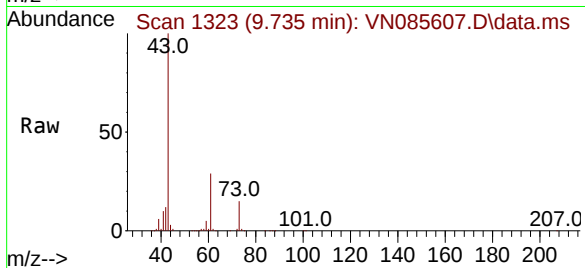




#49
1,4-Dioxane
Concen: 1.498 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

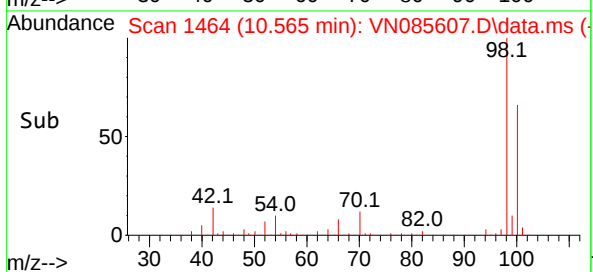
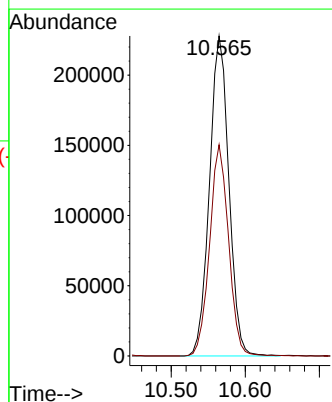
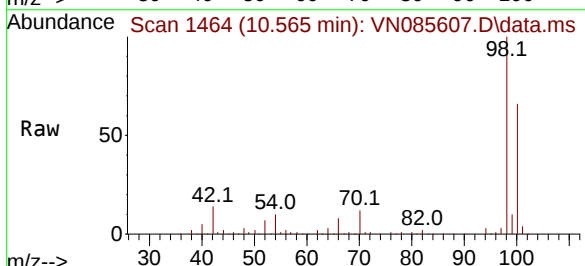
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#12

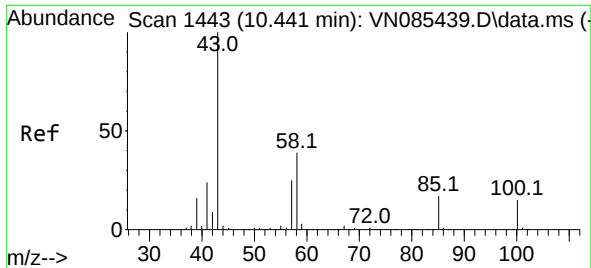
Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 2503931.0 26.6 39.8#
58 13372.4 59.5 89.3#



#50
Toluene-d8
Concen: 51.746 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 98 Resp: 413718
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.4

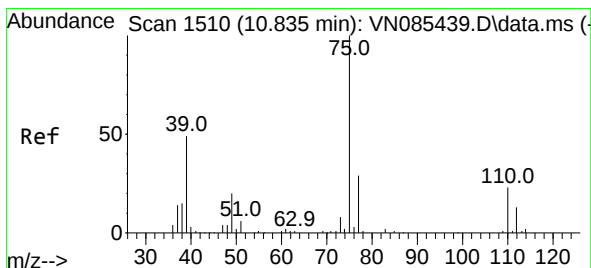
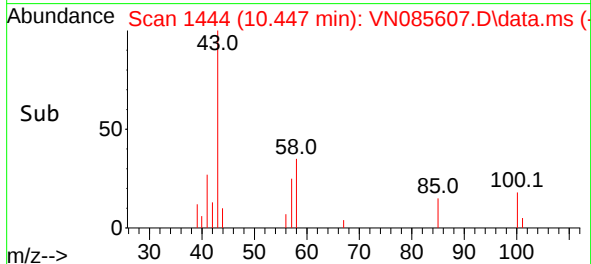
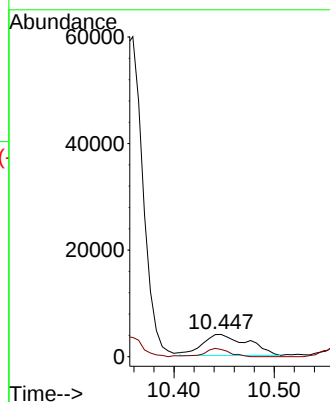
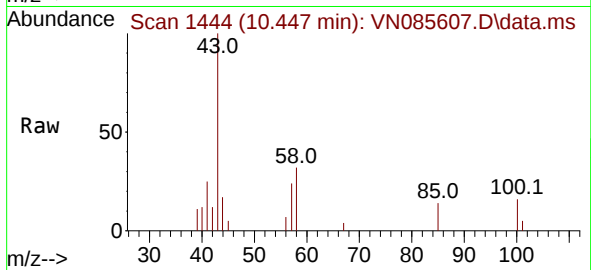




#51
4-Methyl-2-Pentanone
Concen: 4.219 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

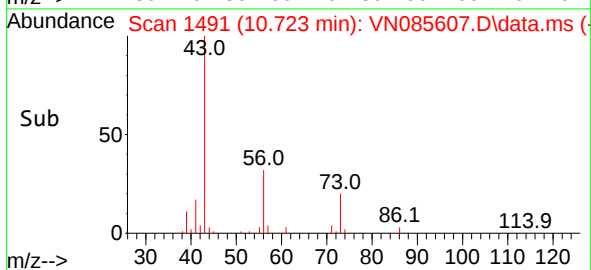
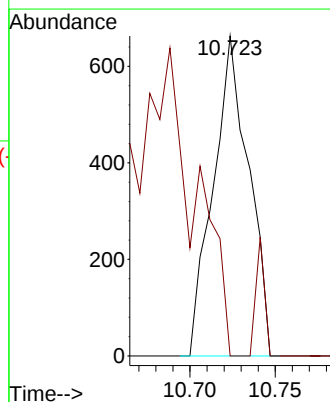
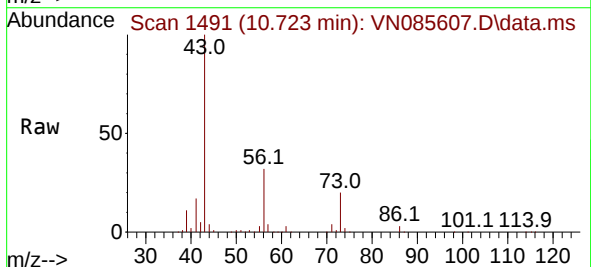
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#12

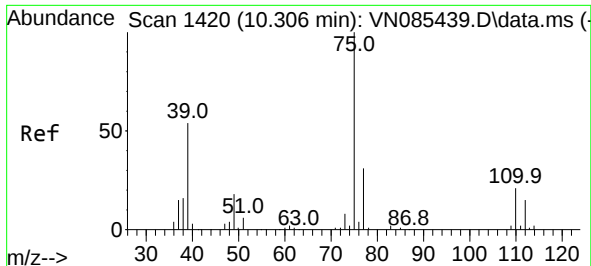
Tgt Ion: 43 Resp: 12504
Ion Ratio Lower Upper
43 100
58 21.9 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.285 ug/l
RT: 10.723 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 75 Resp: 959
Ion Ratio Lower Upper
75 100
77 0.0 23.5 35.3#

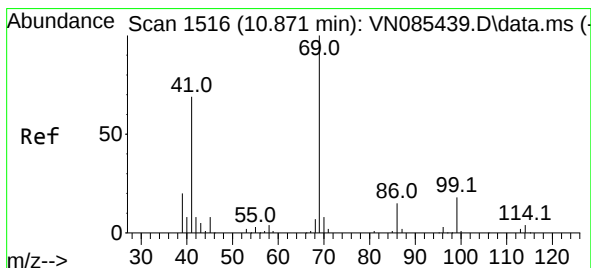
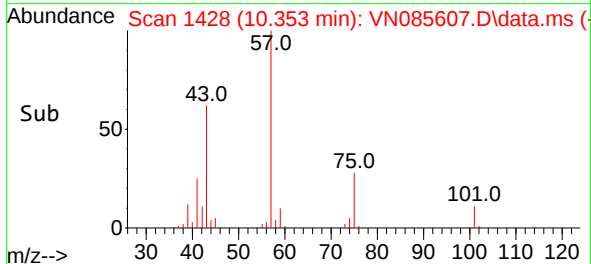
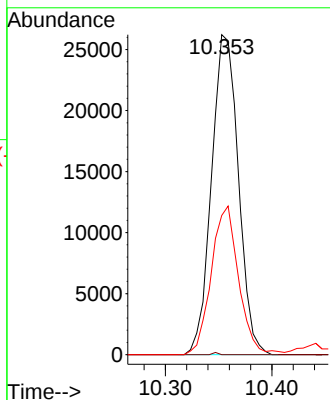
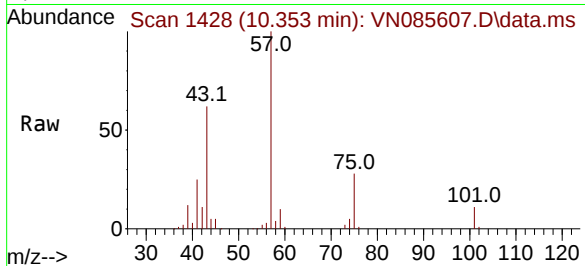




#54
 cis-1,3-Dichloropropene
 Concen: 12.767 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

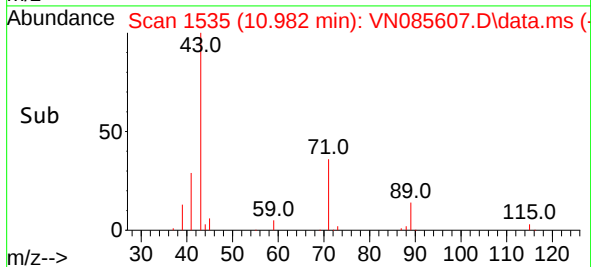
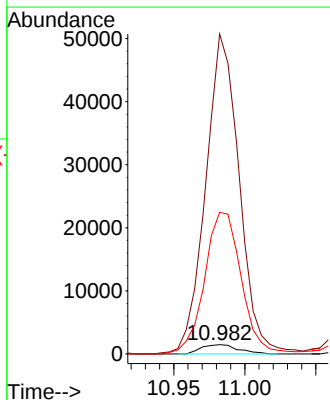
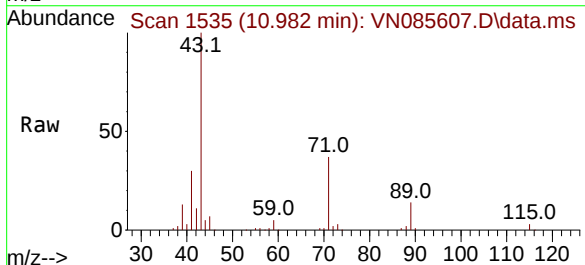
Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#12

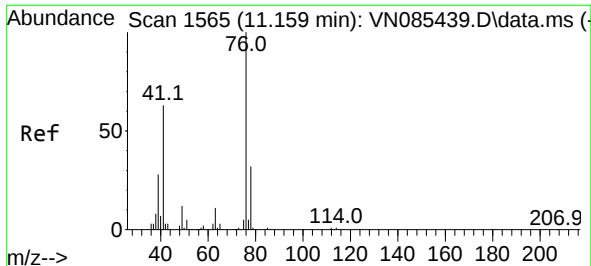
Tgt Ion: 75 Resp: 45919
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 43.5 43.1 64.7



#56
 Ethyl methacrylate
 Concen: 2.637 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

Tgt Ion: 69 Resp: 2692
 Ion Ratio Lower Upper
 69 100
 41 3109.0 54.6 82.0#
 39 1497.8 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.957 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085607.D

Acq: 31 Jan 2025 17:16

Instrument :

MSVOA_N

ClientSampleId :

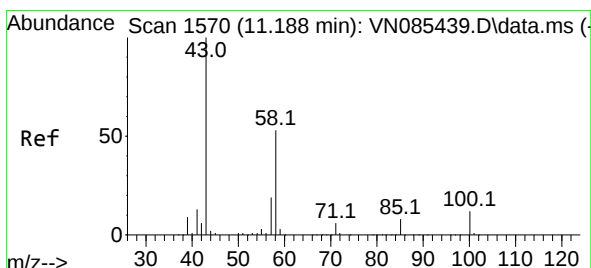
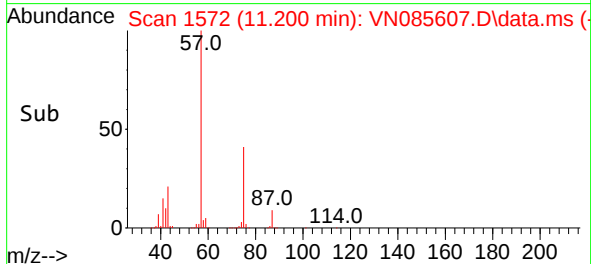
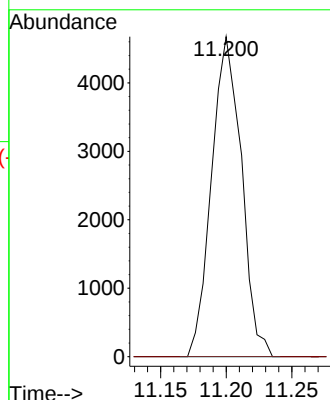
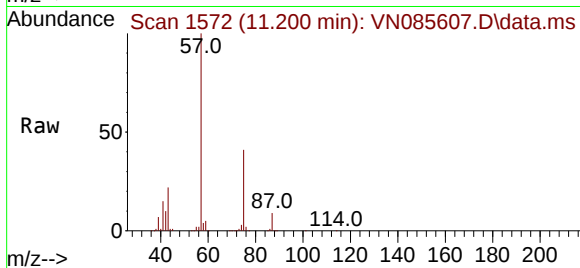
PB166357ZHE#12

Tgt Ion: 76 Resp: 7403

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 42.363 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085607.D

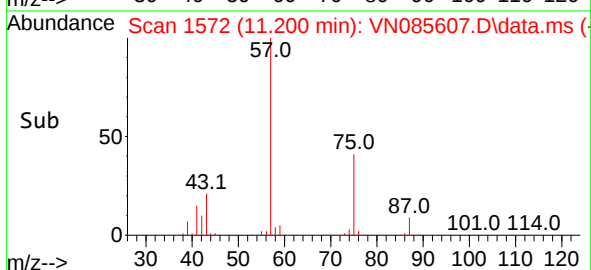
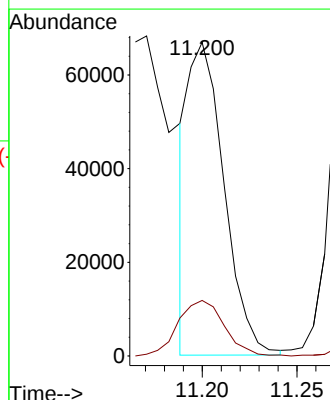
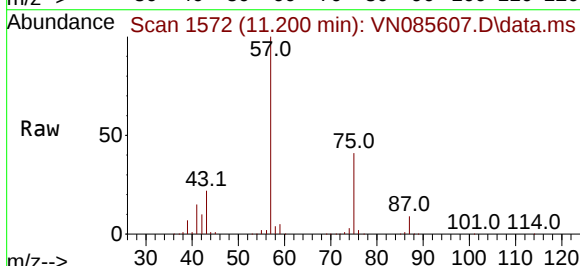
Acq: 31 Jan 2025 17:16

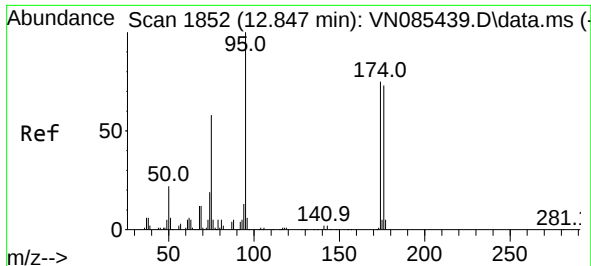
Tgt Ion: 43 Resp: 88352

Ion Ratio Lower Upper

43 100

58 22.9 26.2 78.6#

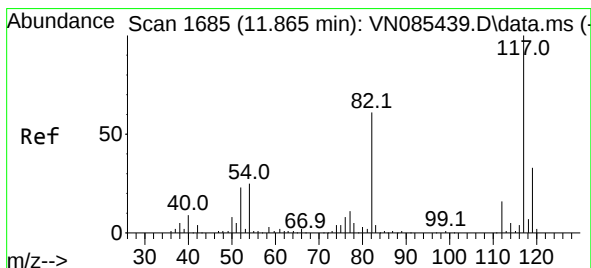
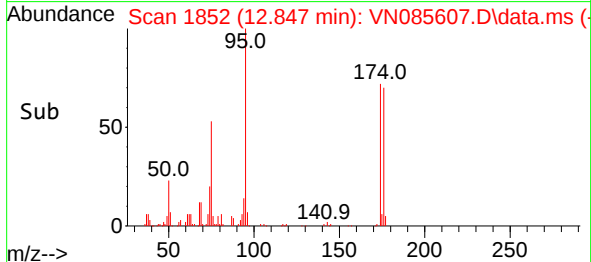
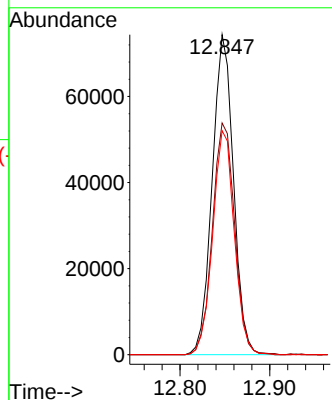
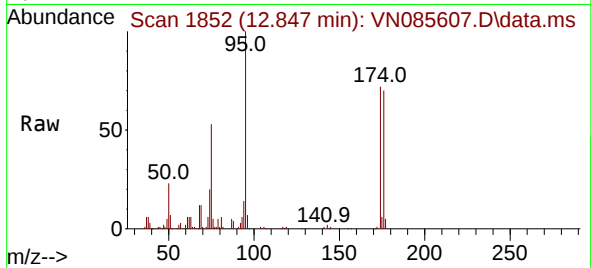




#62
4-Bromofluorobenzene
Concen: 44.620 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

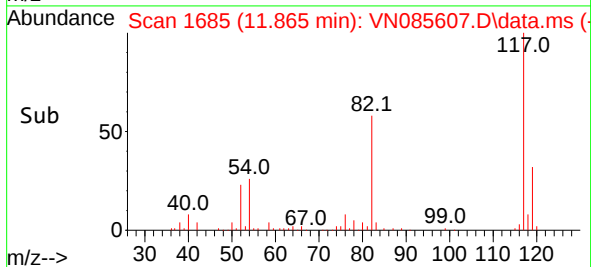
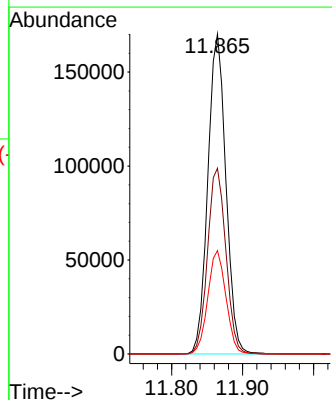
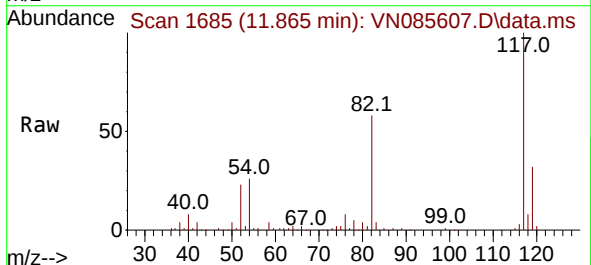
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#12

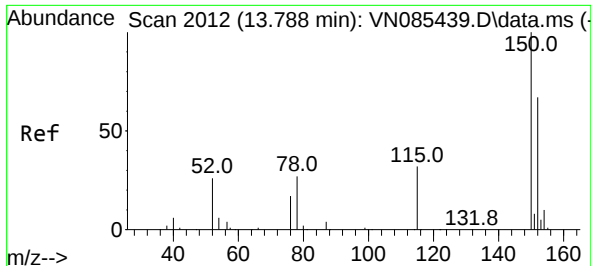
Tgt Ion: 95 Resp: 122032
Ion Ratio Lower Upper
95 100
174 76.0 0.0 145.0
176 71.3 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085607.D
Acq: 31 Jan 2025 17:16

Tgt Ion: 117 Resp: 300427
Ion Ratio Lower Upper
117 100
82 58.1 48.6 72.8
119 32.3 26.6 39.8

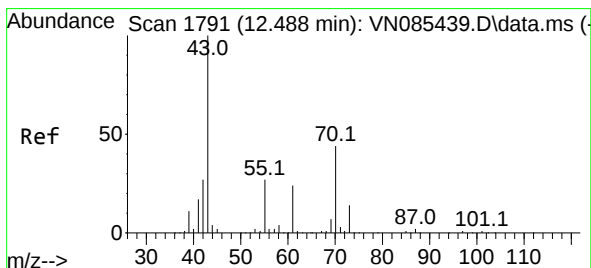
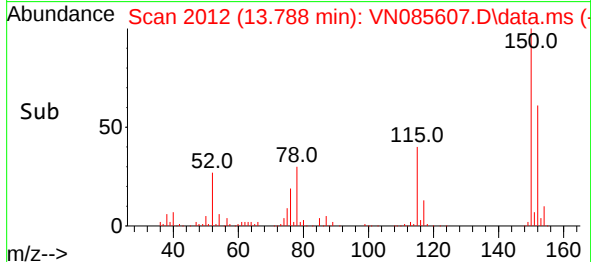
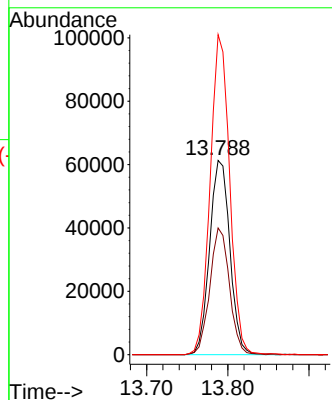
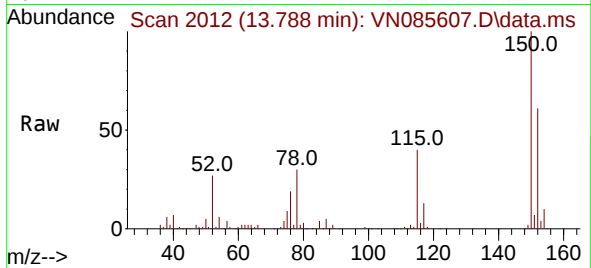




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

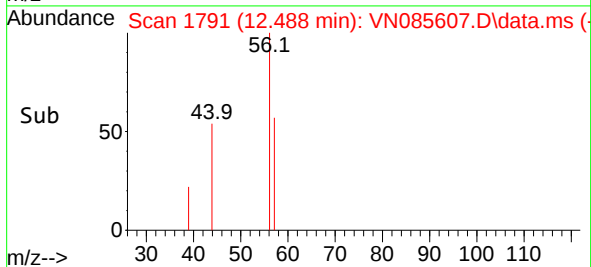
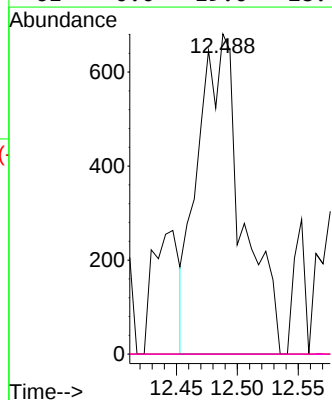
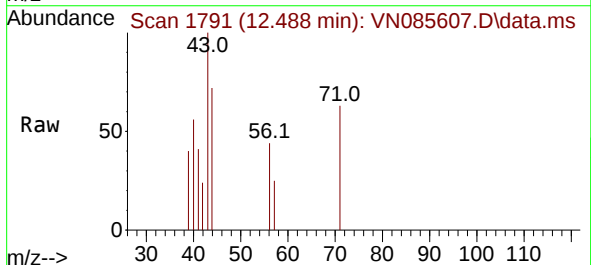
Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#12

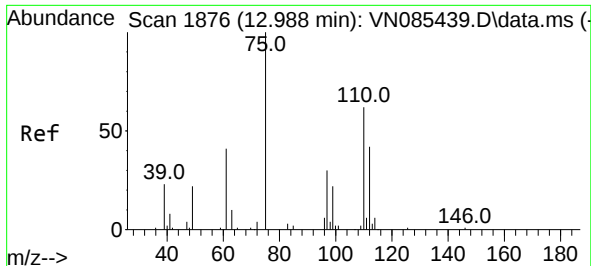
Tgt Ion:152 Resp: 106376
 Ion Ratio Lower Upper
 152 100
 115 63.0 31.1 93.3
 150 158.7 0.0 343.6



#74
 N-ethyl acetate
 Concen: 0.536 ug/l
 RT: 12.488 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

Tgt Ion: 43 Resp: 1729
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.0 51.0#
 55 0.0 21.4 32.2#
 61 0.0 19.0 28.4#

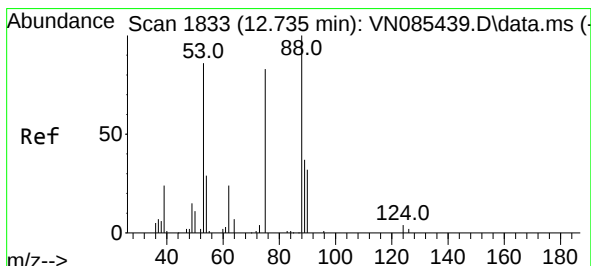
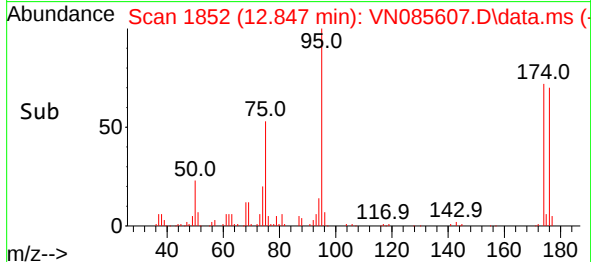
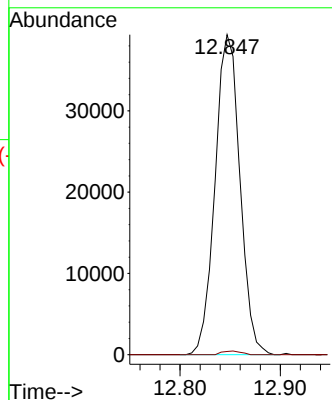
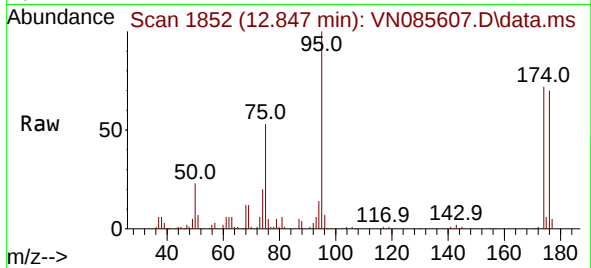




#76
 1,2,3-Trichloropropane
 Concen: 31.352 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#12

Tgt Ion: 75 Resp: 67787
 Ion Ratio Lower Upper
 75 100
 77 0.9 109.7 329.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.825 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN085607.D
 Acq: 31 Jan 2025 17:16

Tgt Ion: 75 Resp: 67787
 Ion Ratio Lower Upper
 75 100
 53 0.1 95.6 143.4#
 89 0.0 37.0 55.6#

